CONTENTS

Volume 37 Number 1 1976

R. D. Heitzer · J. C. G. Ottow
New Denitrifying Bacteria Isolated from Red Sea Sediments 1

R. Ukeles · W. E. Rose
Observations on Organic Carbon Utilization by Photosynthetic Marine Microalgae 11

A. Sournia
Primary Production of Sands in the Lagoon of an Atoll and the Role of Foraminiferan Symbionts 29

S. W. Jeffrey
A Report of Green Algal Pigments in the Central North Pacific Ocean 33

H. F. Bittaker · R. L. Iverson
Thalassia testudinum Productivity: A Field Comparison of Measurement Methods 39

P. Mayzaud
Respiration and Nitrogen Excretion of Zooplankton. IV. The Influence of Starvation on the Metabolism and the Biochemical Composition of Some Species 47

S. W. Fowler · G. Benayoun
Influence of Environmental Factors on Selenium Flux in Two Marine Invertebrates 59

C. C. Emig · Y. Thouveny
Absorption directe d'un acide aminé par *Phoronis psammophila.* [Direct Uptake of an Amino-Acid by *Phoronis psammophila*] 69

F. A. Green, Jr. · J. W. Anderson · S. R. Petrocelli · B. J. Presley · R. Sims
Effect of Mercury on the Survival, Respiration, and Growth of Postlarval White Shrimp, *Penaeus setiferus* 75

L. G. Ross
The Permeability to Oxygen of the Swimbladder of the Mesopelagic Fish *Ceratoscopelus maderensis* 83

J. J. Helly, Jr.
The Effect of Temperature and Thermal Distribution on Glycolysis in Two Rockfish Species *(Sebastes)* 89

R. Nakamura
Experimental Assessment of Factors Influencing Microhabitat Selection by the Two Tidepool Fishes *Oligocottus maculosus* and *O. snyderi* 97

Volume 37 Number 2 1976

R. P. M. Bak · J. H. B. W. Elgershuizen
Patterns of Oil-Sediment Rejection in Corals 105

E. S. Gilfillan · D. Mayo · S. Hanson · D. Donovan · L. C. Jiang
Reduction in Carbon Flux in *Mya arenaria* caused by a Spill of No. 6 Fuel Oil 115

W. B. Stickle · G. J. Denoux
Effects of *in situ* Tidal Salinity Fluctuations on Osmotic and Ionic Composition of Body Fluid in Southeastern Alaska Rocky Intertidal Fauna 125

L. R. Haury
Small-Scale Pattern of a California Current Zooplankton Assemblage 137

L. R. Haury
A Comparison of Zooplankton Patterns in the California Current and North Pacific Central Gyre 159

D. M. Dauer · J. L. Simon
Habitat Expansion among Polychaetous Annelids Repopulating a Defaunated Marine Habitat 169

W. J. Pohley
Relationships among Three Species of *Littorina* and Their Larval Digenea 179

W. T. O'Day · H. R. Fernandez
Vision in the Lanternfish *Stenobrachius leucopsarus* (Myctophidae) 187

Volume 37 Number 3 1976

S. Taguchi
Short-Term Variability of Photosynthesis in Natural Marine Phytoplankton Populations 197

R. J. King · W. Schramm
Determination of Photosynthetic Rates for the Marine Algae *Fucus vesiculosus* and *Laminaria digitata* 209

R. J. King · W. Schramm
Photosynthetic Rates of Benthic Marine Algae in Relation to Light Intensity and Seasonal Variations 215

J. Ramus · S. I. Beale · D. Mauzerall · K. L. Howard
Changes in Photosynthetic Pigment Concentration in Seaweeds as a Function of Water Depth 223

J. Ramus · S. I. Beale · D. Mauzerall
Correlation of Changes in Pigment Content with Photosynthetic Capacity of Seaweeds as a Function of Water Depth 231

J. P. Cowen · V. F. Hodge · T. R. Folsom
In vivo Accumulation of Radioactive Polonium by the Giant Kelp *Macrocystis pyrifera* 239

R. Eiben
Einfluß von Benetzungsspannung und Ionen auf die Substratbesiedlung und das Einsetzen der Metamorphose bei Bryozoenlarven *(Bowerbankia gracilis)*. [Influence of Wetting Tension and Ions upon Settlement and Beginning of Metamorphosis in Bryozoan Larvae *(Bowerbankia gracilis)*] 249

J. C. Castilla · J. Cancino
Spawning Behaviour and Egg Capsules of *Concholepas concholepas* (Mollusca: Gastropoda: Muricidae) 255

G. Schulte
Gezeitenrhythmische Nahrungsaufnahme und Kotballenablage einer terrestrischen Milbe (Oribatei: Ameronothridae) im marinen Felslitoral. [Tidal Rhythms in Feeding and Defecation of a Terrestrial Mite (Oribatei: Ameronothridae) of Intertidal Rocks] 265

J. M. Shick
Physiological and Behavioral Responses to Hypoxia and Hydrogen Sulfide in the Infaunal Asteroid *Ctenodiscus crispatus* 279

Volume 37 Number 4 1976

S. Weinberg
Submarine Daylight and Ecology 291

J. Ali Khan
Distribution and Abundance of Fish Larvae off the Coast of West Pakistan 305

V. B. Meyer-Rochow
Some Observations on Spawning and Fecundity in the Luminescent Fish *Photoblepharon palpebratus* 325

M. L. Harmelin-Vivien · C. Bouchon
Feeding Behavior of Some Carnivorous Fishes (Serranidae and Scorpaenidae) from Tuléar (Madagascar) 329

A. F. Holland · T. T. Polgar
Seasonal Changes in the Structure of an Intertidal Community 341

W. Lampert
A Directly Coupled, Artificial Two-Step Food Chain for Long-Term Experiments with Filter-Feeders at Constant Food Concentrations 349

S. W. Fingerman · M. Fingerman
Effects of Time of Year and Limb Removal on Rates of Ecdysis of Eyed and Eyestalkless Fiddler Crabs, *Uca pugilator* 357

R. F. Lee · C. Ryan · M. L. Neuhauser
Fate of Petroleum Hydrocarbons Taken up from Food and Water by the Blue Crab *Callinectes sapidus* 363

J. G. Wilson
Dispersion of *Tellina tenuis* from Kames Bay, Millport, Scotland 371

J. Beardall · I. Morris
The Concept of Light Intensity Adaptation in Marine Phytoplankton: Some Experiments with *Phaeodactylum tricornutum* 377

H. J. Semina · I. A. Tarkhova · Truong Ngoc An
Different Patterns of Phytoplankton Distribution, Cell Size, Species' Composition and Abundance 389

Indexed in Current Contents